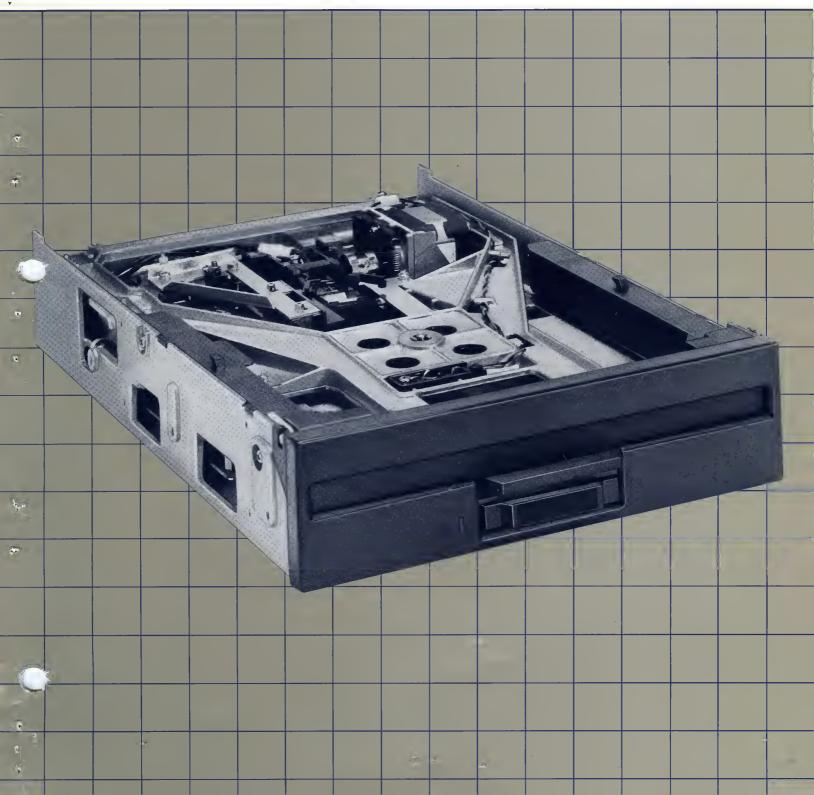


8" HALF-HEIGHT FLEXIBLE DISK DRIVE M2896-63



Mitsubishi's technological competence has once again delivered.

Introducing the M2896-63, a premier 8-Inch Half-Height Flexible Disk Drive, designed to fulfill the most demanding storage requirements for the dimension conscious OEM. This high speed double sided, double density disk drive accurately stores 1600 kilobytes per disk. And, its unique high

quality Gimbal Head design assures excellent media integrity and longer wear with SOFTOUCH control. Strategic component locations have been isolated to help minimize temperature fluctuations and resulting operational problems. Long on high performance features, the M2896-63 is very affordable, especially when considering its compatibility and interchangeability with industry standards, like

Note: all dimensions are inches [dimensions in () are in mm]

UNIQUE ON TRACK GIMBAL HEAD PLUG COMPATIBILITY SAFE SOFTOUCH HEAD **INCREASED STORAGE** MEDIA COMPATIBILITY The M2896-63 is plug-Interchangeable with IBM The head load mechanism Half the height and half the compatible and user-option-Enhanced tracking capabiluses a closed-loop electric weight of its 8-inch predeformatted media (diskette compatible to the M2894-63. ity of the medium surface is damping system employing cessors, the M2896-63 can 1,2,2D) with or without provided by a new type of circular Gimbal spring in the write-precompensation. a magnetic sensor. The be mounted in a standard magnetic heads load on the 19-inch RETMA rack as a read/write head suspension medium surface so softly set of parallel units. mechanism. Media Tap-Tap that almost no scratching is life can provide over 100,000 detected by repeated loadload/unload operations from ing and unloading (Tap-Tap). the same point on the same ACCURATE POSITIONING MECHANISM Factory calculated stepper motor location prevents media damage or disk expansion (due to temperature fluctuations) during operation. **MULTI-FUNCTION LED** Indicates drive/program selection or command reception. **HIGH QUALITY** INTERCHANGEABILITY Media need not be specifi-DC BRUSHLESS cally designated by brand **DIRECT DRIVE MOTOR** name. Diskette quality variation negligibly affects the A direct-drive, dc motor for drive performance. Stable the spindle drive eliminates media interchangeability is the need for a drive pulley allowed by a window timing margin and off-track margin. and belt. No more AC power requirements, pulley Temperature and humidity ranges are fully covered with changes—or the problems associated with belt-driven

drives thus providing better

serviceability.

excellent stability.

the Shugart SA850R.

If specifications require "high performance affordability" for error-free double density operation, in half-height dimensions—the choice is made. The Mitsubishi M2896-63 is ready to deliver.



Specifications

M2896-63
1600
800
10.4
985
492
6.66
500
83
3
91
15
35

Functional Specificatio	ns
Recording density (bits per inch)	6816
Flux density (flax changes per inch)	6816
Encoding method	MFM/M2FM
Track density (track per inch)	48
Number of cylinders	77
Number of tracks	154
Number of heads	2
Rotation speed (RPM)	360
Rotation period (milliseconds)	166.7
Index	1

Physical Specifications		
DC power requirements + 5V + 24V	+ 5V ± 5%, 1.0A typical + 24 ± 10%, 1.0A typical	
Operating environmental conditions Ambient temperature Relative humidity	41°F-109°F (5°C-43°C) 20%-80% [Maximum wet bulb temperature: 85°F (29°C)]	
Non-operating environmental conditions Ambient temperature Relative humidity	14°F-122°F (-10°C-50°C) 5%-95%	
Physical dimensions Height Width Depth	(except front panel) 2.25 inches (57mm) 8.55 inches (217mm) 12.40 inches (315mm)	
Front panel dimensions	2.25 x 8.55 inches (57 x 217mm)	
Weight	7.8 lbs (3.5 kg)	

	Relia	bility	Speci	fications
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40.000.0011
10,000 POH or more 30 minutes
5 years or 20,000 power on hours, whichever occurs first
3.5 x 10 ⁶ pass/track or more 10 ⁵ or more
10 ⁻⁹ bit 10 ⁻¹² bit 10 ⁻⁶ bit

INPUT CONTROL LINES
(CONTROLLER-TO-DISK DRIVE)

(CONTR	OLLER-IO-DISK DRIVE)
SIGNAL	<u>DESCRIPTION</u>
2	ALTERNATE I/O *(WRITE CURRENT SWITCH)
4	ALTERNATE I/O
6	ALTERNATE I/O
14	SIDE SELECT
16	ALTERNATE I/O (IN USE)
18	ALTERNATE I/O (HEAD LOAD/ MOTOR START)
26	DRIVE SELECT 1
	DRIVE SELECT 2
	DRIVE SELECT 3
	DRIVE SELECT 4
_	DIRECTION SELECT
	STEP
	WRITE DATA
40	WRITE GATE
	SIGNAL 2 4 6 14 16 18 26 28 30 32 34 36 38

OUTPUT STATUS LINES (DISK DRIVE-TO-CONTROLLER)

	(DION L	THE TO CONTINUEEEN
7 9	10	ALTERNATE I/O (TRUE READY) ALTERNATE I/O (TWO-SIDED)
11	12	ALTERNATE I/O (DISK CHANGE)
19	20	INDEX
21 41	22 42	READY TRACK 00
41	42 44	WRITE PROTECT
45	46	READ DATA
23	24	(NOT USED)
47 49	48 50	(NOT USED) (NOT USED)
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NOTE: *() are optional use.

Note: Specifications are subject to change without notice.





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